

Aqua MODIS Prelaunch Polarization Measurement Setup

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1 Abstract

This report describes the setup of MODIS Aqua and Terra relative to the Polarization Spectral Assembly (PSA) during the prelaunch polarization measurements at SBRS.

2 Setup in the SBRS Laboratory

In Figures 1 and 2, the angles of the PSA are given relative to the MODIS coordinate system. The MODIS x-axis is parallel to the rotation axis of the scan mirror, with the positive x-axis pointing into the flight direction. The positive MODIS z-axis is pointing to the earth view, or in this case the PSA. In both figures, the setup is shown for a MODIS viewing angle of 0° (measurements were done at $-45^\circ, -22.5^\circ, 0^\circ, 22.5^\circ, 45^\circ$).

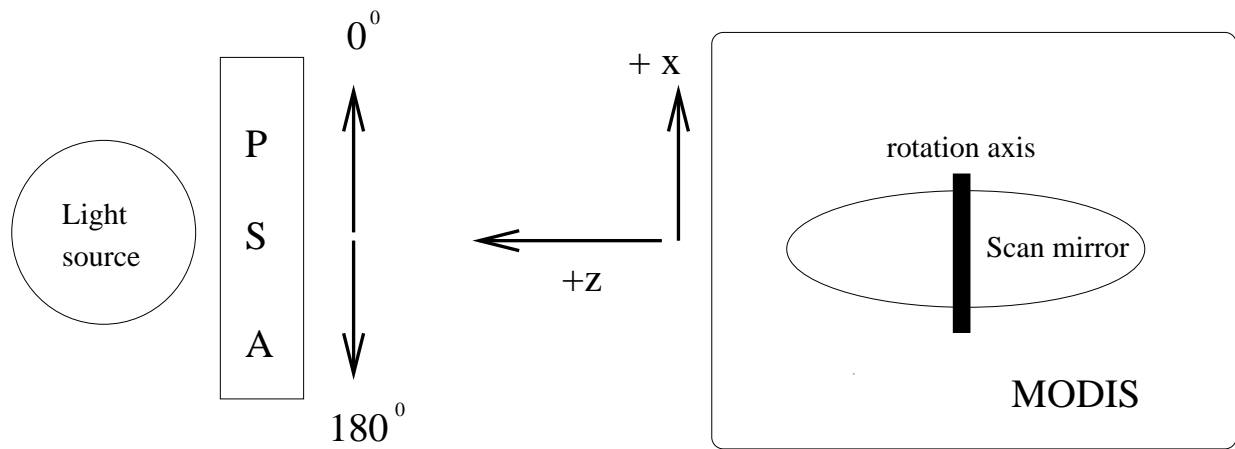


Figure 1: Angles of the PSA relative to the MODIS coordinate system, view of the setup in the SBRs laboratory from the **side**.

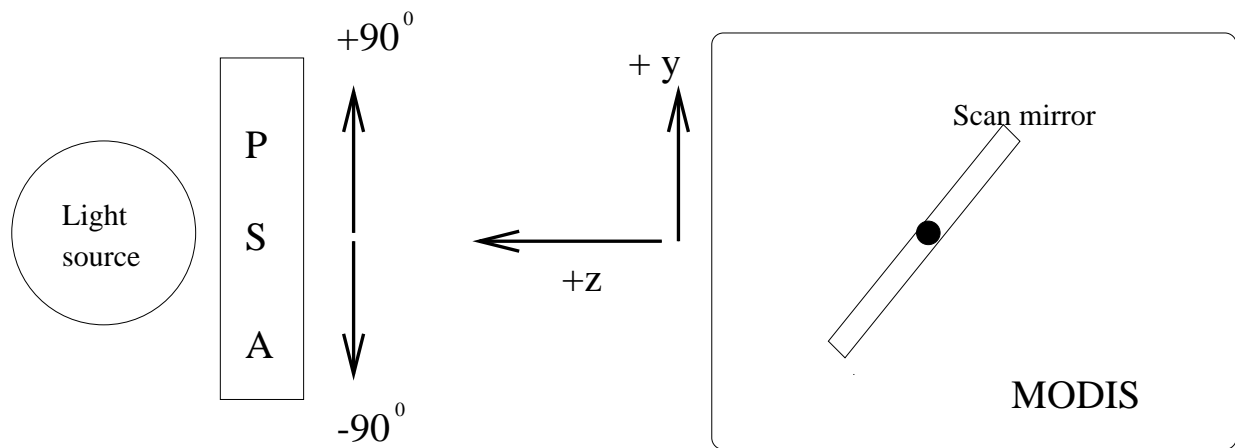


Figure 2: Angles of the PSA relative to the MODIS coordinate system, view of the setup in the SBRs laboratory from the **top**. The dark circle in the center of the scan mirror is the rotation axis of the scan mirror.